# **UNCLASSIFIED**

APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-4 Advanced Component Dev & Prototypes (AD 0603612M Marin  COST (\$ in Millions)  FY 2003  FY 2004  Project Cost  0.310  1.202  RDT&E Articles Qty  (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Advance Mine Detector (AMD) will be a man-portable system capable of detecting bot for detection of buried metallic and semi-metallic mines. Current mine detection technological provide a capability to neutralize the hazards associated with explosive ordnance that are be material. The FEOD Equipment accomplishes this mission by detecting, identifying, render tools.  (U) ACCOMPLISHMENTS/PLANNED PROGRAM:  COST (\$ in Millions)  FY 200  ACCOMPLISHMENTS/PLANNED PROGRAM:  COST (\$ in Millions)  FY 200  AMD: Facilitate program transition to Marine Corps Systems Command (MARCORS travel.)  COST (\$ in Millions)  FY 200  ACCOMPLISHMENTS/PLANNED PROGRAM:  COST (\$ in Millions)  FY 200  AMD: Facilitate program transition to Marine Corps Systems Command (MARCORS travel.)  COST (\$ in Millions)  FY 200  ACCOMPLISHMENTS/PLANNED PROGRAM:  COST (\$ in Millions)  FY 200  AMD: Facilitate program transition to Marine Corps Systems Command (MARCORS travel.)  COST (\$ in Millions)  FY 200  ACCOMPLISHMENTS/PLANNED PROGRAM:  COST (\$ in Millions)  FY 200  AMD: Facilitate program transition to Marine Corps Systems Command (MARCORS travel.)  COST (\$ in Millions)  FY 200  ACCOMPLISHMENTS/PLANNED PROGRAM:	th metallic and ies are only able eyond the norm ring safe, recovery 103	ronmetallic buride to detect metal al capabilities of vering, evacuating	FY 2007  3.716  ed mines regardle lic mines. The Fatother specialties g and disassemble 004  60  2	FY 2008  0.640  ess of fuse type. amily of Explosis and present a tlling, and/or disp	The AMD will ive Ordnance Di hreat to operation osing of unexplo	MBER AND NA ICE Mine Detect Cost to Complete  0.000  alleviate a critical isposal (FEOD) r. ns, installations, oded ordnance with the complete of the complete	Total Program  16.624  al deficiency mission is to personnel and ith a variety of
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (AD 0603612M Marin  COST (\$ in Millions)  FY 2003  FY 2004  Project Cost  0.310  1.202  RDT&E Articles Qty  12  (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:  The Advance Mine Detector (AMD) will be a man-portable system capable of detecting bot for detection of buried metallic and semi-metallic mines. Current mine detection technological provide a capability to neutralize the hazards associated with explosive ordnance that are be material. The FEOD Equipment accomplishes this mission by detecting, identifying, render tools.  (U) ACCOMPLISHMENTS/PLANNED PROGRAM:  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine Corps Systems Command (MARCORS travel).  COST (\$ in Millions)  FY 200  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct initial developmental testing and follow-up developmental testing in	th metallic and ies are only able eyond the norm ring safe, recovery 103	ronmetallic buride to detect metal al capabilities of vering, evacuating	FY 2007  3.716  ed mines regardle lic mines. The Fatother specialties g and disassemble 004  60  2	FY 2008  0.640  ess of fuse type. amily of Explosis and present a tlling, and/or disp	The AMD will ive Ordnance Di hreat to operation osing of unexplo	Cost to Complete  0.000  alleviate a critical isposal (FEOD) r. ns, installations, oded ordnance with the control of the contr	Total Program  16.624  al deficiency mission is to personnel and ith a variety of
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RDT&E Articles Qty  AMD: Conduct initial developmental testing and follow-up developmental testing in		0.5	00	1.0			
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COST (\$ in Millions) FY 200	03	FY 2	004	FY 2	2005	]	
Accomplishment/Effort Subtotal Cost 0.000		0.0			750		
RDT&E Articles Qty							
AMD: Update programmatic documentation and technical drawings. Development of	f technical mar	nuals and training	g packages.			ļ	
COST (\$ in Millions) FY 200	03	FY 2	004	FY 2	2005	]	
Accomplishment/Effort Subtotal Cost 0.000	0.000		0.217		1.637		
RDT&E Articles Qty						1	
AMD: Conduct Trade Studies to reduce power consumption/weight, improve detection	on depths, and	sweep rate. Engi	ineering and desi	ign studies to im	prove ergonomi	c characteristics.	integrate
human factors and finalize overall system design.	1 ,	. 8	2			,	C
COST (\$ in Millions) FY 200	03	FY 2	004	FY 2	2005	]	
	0.000		0.025		0.000		
RDT&E Articles Qty	-		-			1	
<b>FEOD:</b> Conduct re-configuration studies on the EOD tool sets.			L			ı	
(U)Total \$ 0.310		1.202		4.522			

R-1 SHOPPING LIST - Item No. 57

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 1 of 3)

### UNCLASSIFIED

EXHIBIT R-2	DATE:					
	February 2004					
APPROPRIATION/BUDGET ACTIVITY	PF	ROGRAM ELEN	MENT NUMBER	AND NAME	•	PROJECT NUMBER AND NAME
RDT&E, N /BA-4 Advanced Component Dev & Pro	totypes (AD 06	03612M Marin	e Corps Mine/0	Countermeasures Systen	าร	C2106 Advance Mine Detector
PROJECT CHANGE SUMMARY:	FY2003	FY2004	FY2005			
(U) FY 2004 President's Budget:	0.486	1.215	6.032			
(U) Adjustments from the President's Budget:						
(U) Congressional/OSD Program Reductions						
(U) Congressional Rescissions						
(U) Congressional Increases						
(U) Reprogrammings	-0.168		-1.495			
(U) SBIR/STTR Transfer	-0.008	-0.013	-0.015			
(U) Minor Affordability Adjustment						
(U) FY 2005 President's Budget:	0.310	1.202	4.522			
CHANCE CHAMADY EVEL ANATION.						

#### CHANGE SUMMARY EXPLANATION:

- (U) Funding: Change in FY03 funding is due to \$8K SBIR reduction and a \$168K reduction due to realignment of programs within the Marine Corps.
- Change in FY04 funding is due to \$13K SBIR reduction. Change in FY05 funding is due to reductions of \$15K for SBIR and \$1.495M realignment of programs.
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.

## (U) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI 632500 Demo Support Sys	0.000	2.026	3.422	1.097	11.641	10.72	5.843	Continuing	Continuing

Advanced Mine Detector

- (U) Related RDT&E: Not Applicable.
- (U) D. ACQUISITION STRATEGY: By leveraging an exploratory technology program for mine detection, the Marine Corps will maintain active involvement in the AMD development during concept and technology development. A backpack prototype, configured to detect Trinitrotoluene (TNT), Hexahydro-Trinitro-Triazine (RDX), tetryl and metallic and semi-metallic mines, will be delivered 2nd quarter FY 05 for test and evaluation. The demonstrated technology will then transition into system development and demonstration phase for further development. A cost plus contract with negotiated contractor incentives in the areas of weight, sweep rate, and power consumption will be awarded. After completion of Milestone B, the program enters Low Rate Initial Production (LRIP). LRIP items will undergo Intial Operational Test and Evaluation in preparation for full rate production. The production phase will employ a fixed price production contract.
- (U) SCHEDULE PROFILE: Not Applicable.
- (U) E. MAJOR PERFORMERS:
- FY03 TBD Competetive Contract for program support
- FY04 Aberdeen Test Center, Aberdeen, MD, Test Activity for the AMD Prototypes
- FY05 TBD Competetive Contract for the Engineering and design support to improve ergonomic characteristics, integrate human factors and finalize overall system design.

## **UNCLASSIFIED**

						DATE:						
Exhibit R-3 Cost Analysis				February 2004								_
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT PROJECT NUMBER AND NAME									
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)				Marine Co	_	/Counterm		ys	C2106 Advance Mine Detector			
Cost Categories		Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value o
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Engineering & Design	TBD	TBD						1.132	2Q/05	Cont.	Cont.	
Systems Engineering	TBD	TBD						0.505	3Q/05	Cont.	Cont.	
Subtotal Product Dev			0.000	0.000		0.000		1.637		Cont.	Cont.	
Remarks:									•		•	•
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value o
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Engineering Spt	RCP	MCSC Quantico, VA		0.128	07/03	0.204	10/03	1.135	10/04	Cont.	Cont.	
Engineering Spt	MIPR	CECOM Alexandria		0.140	07/03							
Engineering Spt	RCP	CECOM Alexandria		0.042	07/03							
Engineering Spt (FEOD)	RCP	MCSC Quantico, VA				0.025	03/04				0.025	0.025
Subtotal Support		·	0.000	0.310		0.229		1.135		Cont.	Cont.	
Remarks:	<b>-</b>		•	<u>-</u>		<u>.</u>	-	-	-	•		
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Testing	MIPR	Aberdeen Proving Grounds, MD				0.500	10/03	0.500	10/04	Cont.	Cont.	
Testing	MIPR	Yuma, AZ						0.500	2Q/05	Cont.	Cont.	
Subtotal T&E			0.000	0.000		0.500		1.000		Cont.	Cont.	
Remarks:	•	•	•	•	•	•	•	•		•	•	•
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Management Spt	RCP	BAE, VA				0.473	10/03	0.750	1Q/05	Cont.	Cont.	
Subtotal Management			0.000	0.000		0.473		0.750		Cont.	Cont.	
Remarks:												
Total Cost			0.000	0.310		1.202		4.522		Cont.	Cont.	